

HQ-180-A and HQ-180-AX

General Coverage Versatility with Unequalled Amateur Bandspread

The HQ-180A and HQ-180AX are standards for general coverage (540 KCS to 30MCS) and amateur reception. For SSB reception at its very best, the HQ-180A combines a linear product detector, selectable sideband, 60 KC third IF, and vernier IF pass-band tuning. An input signal of less than .8 uvolts will produce a 10/1 signal to noise ratio. Accessory power supply for converters, etc.

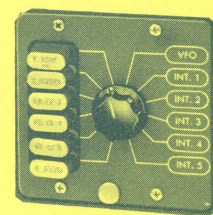
The HQ-180AX features 11 fixed-frequency crystal positions in addition to the VFO. Crystal stability, coupled with an all-purpose receiver, not only meets the needs of the amateur but provides excellent service in commercial and industrial applications.

TRIPLE CONVERSION—17-tube superheterodyne circuit.

NEW HIGH FREQUENCY CRYSTAL FILTER—A new version of the renowned Hammarlund Crystal Filter is employed at 3035 KCS to improve selectivity. Second converter crystal controlled for high stability.

SLOT FILTER—Razor sharp 1.5 KCS at 6 db. Adjustable ± 5 KCS over passband. Better than 60 db attenuation.

CRYSTAL CALIBRATOR—built-in 100 KCS crystal calibrator.



Crystal selector switch on front panel located in the area formerly occupied by the clock. Other positions refer to the five crystals which are easily accessible through the top of the HQ cabinet.



HQ - 110A - VHF

HXL-1 Linear Amplifier 2 KW Peak Power Input

Complete 80 through 10 meter coverage!

Compatible with HX-50A or any 70-100 watt exciter!

"Wide-band" grounded grid input circuit!

"Instant power"—no warm up needed!

Built in DC operated antenna relay for chatter-free operation.

Circuits monitored by multi purpose meter.

Solid state, long life power supply.

Control circuitry compatible with most exciters.

HQ-110A

- **DUAL CONVERSION** . . . 11 tube, 2 silicon diodes, dual-conversion superheterodyne circuit.
- **Frequency Range** . . . Full dial coverage of the 6, 10, 15, 20, 40, 80 and 160 meter amateur bands.
- **Single Sideband** . . . Separate linear detector for optimum reception of SSB and CW signals.
- **Q-Multiplier** • **Beat Frequency Oscillator** • **Crystal Calibrator** . . . Built-in calibrator.
- **Expanded Dial** . . . 144 to 148 MC Calibration for use with 2 meter converters*.
- **Accessory Socket for Preamp or Converter Applications.**

*50-54 MC output.

- Separate Nuvistor front ends for both 6 and 2 meters.
- Sensitivity 0.3 μ V for 10 db S/N.
- IF rejection on 2 meters better than 90 db.
- Employs 4 Nuvistors and 9 tuned circuits to insure sharp front end sensitivity and rejection of unwanted signals.
- Excellent electrical and mechanical stability.
- Expanded vernier tuning.

HX-50A

Compact Crystal Filter SSB, CW, A.M., RTTY Transmitter. Rated at 180 watts P.E.P. SSB input, the new HX-50A covers all amateur bands 80 to 10 meters; 160 meters optional. Novice as well as expert will appreciate the outstanding CW performance of this unit.

Passband couplers used throughout low level stages, permitting wide frequency changes. Five position switch for internal or external VFO plus three crystal controlled frequencies suitable for novice, MARS, C.A.P. Pi-network variable output circuit. Carrier suppression 50 DB; unwanted sideband 40 DB or better. Built-in Antenna changeover, vox and break-in keying. Built-in ZBZ for instant zero beating and calibration.

FOR FULL SPECIFICATIONS OF INDIVIDUAL UNITS WRITE TO:



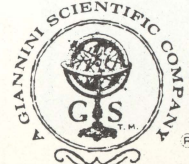
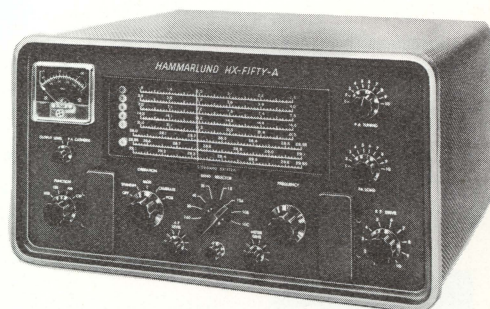
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HQ-145A & HQ-145AX



Dual Conversion General Coverage Receivers Featuring Crystal & Slot Filter Selectivity.

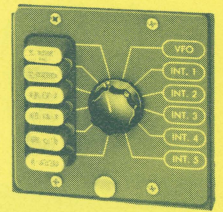
The new HQ-145A General Coverage Receiver with New Features to provide even better operating versatility.

The new HQ-145 AX—the one modestly priced receiver that adds crystal controlled stability to general coverage versatility.

These new Hammarlund receivers represent a giant step forward toward commercial-quality performance.

Features include improved electrical and mechanical stability, separate detectors for undistorted SSB, CW and AM, and silicon rectifiers.

10 tube superheterodyne with improved automatic noise limiter and crystal filter. Frequency-range, 540 KCS to 30 MCS in four bands. S-meter for tuning indication and signal strength readings. Unusually high sensitivity provides an average 10:1 signal to noise ratio with 1 microvolt signal.



Crystal selector switch on front panel located in the area formerly occupied by the clock. Other positions refer to the five crystals which are easily accessible through the top of the HQ cabinet.

FOR YOUR ADDED PLEASURE HAMMARLUND CONVENIENCE ACCESSORIES

Matching Speakers

Crystal Calibrators

24 Hour Clocks

Noise Immunizer

Hammarlund Equipment & Accessories are Available at

BEST TRADES — EASY TERMS

HQ-100A

General Coverage

SWL Standout



Hammarlunds receiver performance offers the amateur and short wave listener the best dollar value on the market today, sensitivity and selectivity of the HQ-100 place it in the really "hot" class. Continuously tunable from 540 KCS to 30 MCS.

Electrical bandspread with unequalled dial calibration.

The unique front panel and cabinet design results in a sturdy attractive receiver that looks right in the living room, den, or radio shack.

All Equipments Operate on 117/234 VAC 50/60 Cycles

**HAMMARLUND
RADIOS**

**Your
Window
On The World**

